**Assignment**

**By.**

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**32) One day when I was going for a lunch, suddenly rain started, I was very hungry so started running with speed of 4km/h and it took 3 min to reach mess. Help me to develop a ‘C’ program to calculate distance travelled by me.**

Answer:

include<studio.h>

int main()

{

int min,kmh;

int meter;

min= 3;

kmh = 4;

meter= (kmh\*1000\*min)/60;

printf("distance travelled is %d metre",meter);

return 0;

}

**33) Can two or more escape sequences such as \n and \t be combined in a single line of program code ?**

Answer: Yes two or more escape sequences such as \n and \t can be used in a single line of code in c programming.

**34) What are comments ? How can you insert it in c program ?**

Answer: Comments are extra information about the code for the programmer. It is not supposed to run during execution of the program.

There are two types of comments:

1. Single line comment.
2. Multiline comment.

**Single line comment:**

* In this type of comment we comment a single line of code.
* We use // in starting of the line we want to comment.
* Example:

// printf("hello class");

**Multi line comment:**

* In this type of comment we comment more than one line of code
* We use /\*in starting of portion we want to comment and \*/ at last of the portion.
* Example:

/\*int a,b;

a= 20;

b= a\*6;

printf("b is %d",b);\*/

**35) What is wrong in this statement?**

**scanf("%d", number);**

Answer: In this statement there is no & sign before variable number due to which value entered by user cannot be assigned to the variable number.

The correct syntax should be like:

scanf("%d",&number);

**36) What will be the output?**

**#include<studio.h>**

**int main()**

**{**

**if(sizeof(int)>-1)**

**{**

**printf("Yes");**

**}**

**else**

**{**

**printf("No");**

**}**

**return 0;**

**}**

Answer: The output will be "Yes" because we know that sizeof function gives size of the data type so here size of int can be 2 or 4 which is greater than -1 so condition of if statement is satisfied and it would enter the block of if statement and then it will print Yes.

**37) Point out which of the following variable names are valid:**

**gross-salary,INTEREST , salary of emp,avg.,thereisbookinmysoup**

Answer:

* gross-salary: It contains hyphen which is not allowed in variable name of c.
* salary of emp: It contains spaces which is not considerable in variable name of c.
* avg.: It contains . Which cannot be used in variable name

**38) Tom works at an aquarium shop on Saturdays. One Saturday, when Tom gets to work, he is asked to clean a 175-gallon reef tank. His first job is to drain the tank. He puts a hose into the tank and starts a siphon. Tom wonders if the tank will finish draining before he leaves work. He measures the amount of water that is draining out and finds that 12.5 gallons drain out in 30 minutes. So, he figures that the rate is 25 gallons per hour. Develop a ‘C’ program to help Tom to calculate time required to completely clean tank.**

Answer:

include<studio.h>

int main()

{

int R,T,TV;

TV= 175;

R= 25;

T= TV/R;

printf("Time for draining complete tank :- %d hours",T);

return 0;

}

**39) The percent y (in decimal form) of battery power remaining x hours after you turn on a laptop computer is y = −0.2 x + 1. Develop a ‘C’ program to calculate after how many hours the battery power is at 75%?**

Answer:

include<studio.h>

int main()

{

int x,y;

y= 75;

x=-( (1-y)/0.2);

printf("battery will drain after %d hours",x);

return 0;

}